

**AMENDMENTS TO THE CLAIMS:**

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The following listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6 Canceled

7. (New) An artificial vision system comprising:

an image pickup device which is to be disposed outside a body of a patient and captures an image in front of the patient; and

a plurality of electrodes which are to be implanted in an eye of the patient so as to stick in an optic papilla of the eye;

the electrodes outputting an electric stimulation signal based on a signal for stimulation pulse which is generated based on the image captured by the image pickup device to stimulate an optic nerve of the eye, thereby enabling the patient to visually recognize the image captured by the image pickup device.

8. (New) The artificial vision system according to claim 7, wherein

the plurality of electrodes are to be implanted so as to individually stick in the optic papilla.

9. (New) The artificial vision system according to claim 7 further comprising:

an external device which is to be disposed outside the body and performs predetermined optimizing processing the image captured by the image pickup device to generate the signal for stimulation pulse; and

an internal device which is to be implanted in the body and converts the signal for stimulation pulse into the electrical stimulation signal to output the electrical stimulation signal from the electrodes.

10. (New) The artificial vision system according to claim 9, wherein

the external device includes the image pickup device, an image processing device which performs the predetermined optimizing processing to generate the signal for stimulation pulse, and a power supply.

11. (New) The artificial vision system according to claim 10, wherein

the image processing device adjusts parameters of the electrical signal to be outputted from the electrodes.

12. (New) The artificial vision system according to claim 10, wherein

the signal and power are transmitted from the external device to the internal device by electromagnetic induction occurring between a primary coil which is to be attached to a skin of the body and a secondary coil which is to be implanted in the body.